TECHNICAL DATASHEET

CYCOM® 6001 Phenolic Resin

Description:

CYCOM® 6001 is a 300-350°F (149-177°C) curing phenolic resin. Service temperatures of up to 500°F (260°C) can be achieved with a post cure. The prepregs utilize glass and carbon fabric reinforcement. The prepregs are available in both a tacky and tack-free form.

CYCOM® 6001 composites have low flammability and smoke generation, and are recommended for aircraft interiors, ablative and carbon/carbon applications. In ablative and carbon/carbon applications, the material gives a high char yield. The prepregs can be processed by press curing. Typical cure cycle is C-19 using one hour at 300 psi and 320°F (160°C).

For more information, contact:
Cytec Engineered Materials
Technical Service
Anaheim, California 92806
714 630-9400

Features and benefits:

- **320-350°F (149-177°C) curing resin**
- **500°F (260°C) service temperature when post-cured**
- **Press cure**
- **Developed for aircraft interiors, ablative and carbon/carbon applications**
- **Self-extinguishing**
- **Low smoke**
- **High char yield**
- **Shelf life 6 months @ O°F (-18°C)**
  3 months @ 40°F (4°C)

This information is provided for informational purposes only and without legal responsibility.
Users are expected to perform adequate verification and testing to ensure that materials meet required specifications.

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Suggested cure

Press: 60 minutes @ 300 psi and 320°F (160°C)

Typical properties

E-Glass fiber reinforced 8 harness satin fabric

Mechanical properties	RT	RT/WET	500°F (260°C)
0º Tensile properties			
Strength, ksi	55-60	55-60	50-55
Strength, MPa	379-414	379-414	345-379
0º Compressive properties			
Strength, ksi	60-65	50-55	30-35
Strength, MPa	414-448	345-379	207-241
0ºFlexural properties			
Strength, ksi	80-90	80-90	50-55
Modulus, Msi	4-5	4-5	3-4
Strength, MPa	552-620	552-620	344-379
Modulus, GPa	27-34	27-34	20-27

Property values listed are typical for laminates with 50 to 55% fiber volume.

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Product safety

Material Safety Data Sheets can be obtained from the Cytec Engineered Materials Safety, Health and Environmental Affairs Department in Winona, Minn. by calling (507) 454-3611.

Product handling

The wearing of clean, impervious gloves is recommended when working with prepreg materials. See Material Safety Data Sheet for more information.

Shipping

Prepreg is typically shipped as rolls in sealed aluminum or polyethylene bags in cardboard containers packed with dry ice.

Disposal of scrap material

Disposal of material should be in accordance with local, state, and federal regulations which may vary by location. Questions concerning disposal should be directed to the Cytec Engineered Materials Safety, Health, and Environmental Affairs Department in Winona, Minn. at (507) 454-3611 for evaluation on a case-by-case basis.

Warning

The data listed has been obtained from carefully controlled samples considered to be representative of the product described. Because the properties of this product can be significantly affected by the fabrication and testing techniques employed, and since Cytec Engineered Materials does not control the conditions under which its products are tested and used, Cytec Engineered Materials cannot guarantee that the properties listed will be obtained with other processes and equipment.

contact US

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